The **floatpag** package

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1 Introduction

Provides commands to apply different pagestyles to the full page floats.

2 Usage

\floatpagestyle {⟨*foo*⟩} will apply pagestyle ⟨*foo*⟩ to all pages occupied by full page floats.

\rotfloatpagestyle {⟨*foo*⟩} will apply pagestyle ⟨*foo*⟩ to all pages occupied by sideways figures and tables produced with the help of `rotating` package (Sebastian Rahtz and Leonor Barroca).

\thisfloatpagestyle {⟨*foo*⟩} will apply pagestyle ⟨*foo*⟩ to a page where this command was used inside figure or table environment.

Default: \floatpagestyle{headings} and \rotfloatpagestyle{plain}.

The following commands from the LaTeX2e kernel were redefined: \@xfloat, \@vtryfc.

The following command from the rotating.sty was redefined: \@xrotfloat.

3 Implementation

```
1 \NeedsTeXFormat{LaTeX2e}
2 \ProvidesPackage{floatpag}
3           [1999/04/29
4               FLOAT PAGESTYLE]
```

\floatpagestyle

```
5 \def\floatpagestyle#1{\gdef\at@float@page{\thispagestyle{#1}}}
```

\rotfloatpagestyle

```
6 \def\rotfloatpagestyle#1{%
7   \gdef\@r@f@pagestyle{#1}%
8   \gdef\at@rotfloat@page{\thispagestyle{#1}}%
9   }
```

```
10 \floatpagestyle{headings}
11 \rotfloatpagestyle{plain}
```

\thisfloatpagestyle

```
12 \def\thisfloatpagestyle#1{%
13   \expandafter\expandafter\expandafter\gdef\expandafter
14     \csname\number\@currbox @float\endcsname{\thispagestyle{#1}}\relax
15   }
```

\@xfloat   Modify \x@float - ordinary floats

```
16 \def\@xfloat #1[#2]{%
17   \@nodocument
18   \def \@captype {#1}%
19   \def \@fps {#2}%
20   \@onelevel@sanitize \@fps
21   \def \reserved@b {!}%
22   \ifx \reserved@b \@fps
23     \@fpsadddefault
24   \else
25     \ifx \@fps \@empty
26       \@fpsadddefault
27     \fi
28   \fi
29   \ifhmode
30     \@bsphack
31     \@floatpenalty -\@Mii
32   \else
33     \@floatpenalty-\@Miii
34   \fi
35   \ifinner
36     \@parmoderr\@floatpenalty\z@
37   \else
38     \@next\@currbox\@freelist
39       {%
40        \@tempcnta \sixt@@n
41        \expandafter \@tfor \expandafter \reserved@a
42          \expandafter :\expandafter =\@fps
43          \do
44          {%
45           \if \reserved@a h%
46              \ifodd \@tempcnta
47              \else
48                \advance \@tempcnta \@ne
49              \fi
50           \fi
51           \if \reserved@a t%
52             \@setfpsbit \tw@
53           \fi
54           \if \reserved@a b%
```

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```
55          \@setfpsbit 4%
56        \fi
57        \if \reserved@a p%
58          \@setfpsbit 8%
59        \fi
60        \if \reserved@a !%
61          \ifnum \@tempcnta>15
62            \advance\@tempcnta -\sixt@@n\relax
63          \fi
64        \fi
65        }%
66      \@tempcntb \csname ftype@\@captype \endcsname
67      \multiply \@tempcntb \@xxxii
68      \advance \@tempcnta \@tempcntb
69      \global \count\@currbox \@tempcnta
70      \expandafter\expandafter\expandafter\gdef\expandafter
71        \csname\number\@currbox @float\endcsname{\at@float@page}\relax
72      }%
73    \@fltovf
74  \fi
75  \global \setbox\@currbox
76    \color@vbox
77      \normalcolor
78      \vbox \bgroup
79        \hsize\columnwidth
80        \@parboxrestore
81        \@floatboxreset
82  }
```

\e@xrotfloat   2e rotating.sty v. 2.10:

```
83 \def\e@xrotfloat#1[#2]{%
84  \@float{#1}[#2]%
85  \thisfloatpagestyle{\@r@f@pagestyle}%
86  \begin{lrbox}\rot@float@box
87  \begin{minipage}\textheight
88  }
```

\n@xrotfloat   2.09 rotating.sty v. 1.6

```
89 \def\n@xrotfloat#1[#2]{%
90  \ifhmode
91    \@bsphack
92    \@floatpenalty -\@Mii
93  \else
94    \@floatpenalty-\@Miii
95  \fi
96  \def\@captype{#1}%
97  \ifinner
98    \@parmoderr\@floatpenalty\z@
99  \else
100    \@next\@currbox\@freelist{\@tempcnta\csname ftype@#1\endcsname
```

```
101        \multiply\@tempcnta\@xxxii\advance\@tempcnta\sixt@@n
102        \@tfor \@tempa :=#2\do{%
103          \if\@tempa h\advance\@tempcnta \@ne\fi
104          \if\@tempa t\advance\@tempcnta \tw@\fi
105          \if\@tempa b\advance\@tempcnta 4\relax\fi
106          \if\@tempa p\advance\@tempcnta 8\relax\fi
107          }%
108        \global\count\@currbox\@tempcnta
109        }%
110      \@fltovf
111    \fi
112    \expandafter\expandafter\expandafter\gdef\expandafter
113      \csname\number\@currbox @float\endcsname{\at@rotfloat@page}\relax
114    \global\setbox\@currbox\vbox\bgroup
115      \hsize\textheight
116      \@parboxrestore
117    }
```

Check for `rotating` version: 2e ar 209: 1999.02.08 To be sure check at begin document.

```
118 \AtBeginDocument{%
119 \@ifpackageloaded{rotating}%
120 {\let\@xrotfloat\e@xrotfloat\let\n@xrotfloat\relax}%
121 {\let\@xrotfloat\n@xrotfloat\let\e@xrotfloat\relax}}%
```

\spec@float "Hook" in the output procedure.

```
122 \def\spec@float#1{\expandafter\csname\number#1@float\endcsname
123   \expandafter\expandafter\expandafter\gdef\expandafter\csname\number#1@float\endcsname{}%
124   }
```

\@vtryfc

```
125 \def\@vtryfc#1{%
126   \global\setbox\@outputbox\vbox{}%
127   \let\@elt\@wtryfc
128   \@flsucceed
129   \let\@elt\spec@float
130   \@flsucceed
131   \global\setbox\@outputbox \vbox to\@colht{%
132     \vskip \@fptop
133     \vskip -\@fpsep
134     \unvbox \@outputbox
135     \vskip \@fpbot
136     }%
137   \let\@elt\relax
138   \xdef#1{\@failedlist\@flfail}%
139   \xdef\@freelist{\@freelist\@flsucceed}%
140   }
```

```
141 %\endinput
```

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